

FASTA searches a protein or DNA sequence data bank
version 3.3t05 March 30, 2000

Please cite:

W.R. Pearson & D.J. Lipman PNAS (1988) 85:2444-2448

/tmp/fastakaarta4pQ: 1093 aa
>Lex 177 SEQ ID NO: 4 human semaphorin
vs /tmp/fastalaasta4pQ library
searching /tmp/fastalaasta4pQ library

1049 residues in 1 sequences

FASTA (3.34 January 2000) function [optimized, BL50 matrix (15:-5)] ktup: 2
join: 39, opt: 27, gap-pen: -12/ -2, width: 16
Scan time: 0.050

The best scores are:

Lex 177 SEQ ID NO: 2 human semaphorin
(1049) 7485

opt

>>Lex 177 SEQ ID NO: 2 human semaphorin
(1049 aa)

initn: 7483 init1: 7483 opt: 7485

Smith-Waterman score: 7485; 99.904% identity in 1043 aa overlap (51-1093:7-1049)

	30	40	50	60	70	80
Lex	SHLSSSQDVSEPSSEQQLCALSKHPTVAFEDLQPWVS	NFTYPGARDFSQLALDPSGNQL				
Lex			MTVVNPQDLQPWVS	NFTYPGARDFSQLALDPSGNQL		
			10	20	30	
	90	100	110	120	130	140
Lex	IVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEEE	CQNYVRVLIVAGRKFV				
Lex	IVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEEE	CQNYVRVLIVAGRKFV				
	40	50	60	70	80	90
	150	160	170	180	190	200
Lex	CGTNAFSPMCTSRQVGNLSRTIEKINGVARCPYDPRHNSTAVISSQ	GELYAATVIDFSGR				
Lex	CGTNAFSPMCTSRQVGNLSRTIEKINGVARCPYDPRHNSTAVISSQ	GELYAATVIDFSGR				
	100	110	120	130	140	150
	210	220	230	240	250	260
Lex	DPAIYRSLGSGPPLRTAQYNSKWLNEPNFVAAYDIGLFAYFFLRENA	VEHDCGRTVYSRV				
Lex	DPAIYRSLGSGPPLRTAQYNSKWLNEPNFVAAYDIGLFAYFFLRENA	VEHDCGRTVYSRV				
	160	170	180	190	200	210
	270	280	290	300	310	320
Lex	ARVCKNDVGGRFLLED	TWTTFMKARLNCSR	PGVFPFYNELQSAFHL	PEQDLIYG	VFTTN	
Lex	ARVCKNDVGGRFLLED	TWTTFMKARLNCSR	PGVFPFYNELQSAFHL	PEQDLIYG	VFTTN	
	220	230	240	250	260	270
	330	340	350	360	370	380
Lex	VNSIAASAVCAFNL	SAISQAFNGPFRYQENPRAAWLPIANPIPNFQCGTLPETGPNENLT				
Lex	VNSIAASAVCAFNL	SAISQAFNGPFRYQENPRAAWLPIANPIPNFQCGTLPETGPNENLT				
	280	290	300	310	320	330

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      390      400      410      420      430      440
Lex  ERSLQDAQRLFLMSEAVQPVTPEPCVTQDSVRFSLVVDLVQAKDTLYHVLVYIGTESGTI
      .....
Lex  ERSLQDAQRLFLMSEAVQPVTPEPCVTQDSVRFSLVVDLVQAKDTLYHVLVYIGTESGTI
      340      350      360      370      380      390

      450      460      470      480      490      500
Lex  LKALSTASRSLHGCYLEELHVLPPGRREPLRSLRILHSARALFVGLRDGVLRVPLERCAA
      .....
Lex  LKALSTASRSLHGCYLEELHVLPPGRREPLRSLRILHSARALFVGLRDGVLRVPLERCAA
      400      410      420      430      440      450

      510      520      530      540      550      560
Lex  YRSQGACLGARDPYCGWDGKQRCSTLEDSSNMSLWTQNITACPVRNVTRDGGFGPWSPW
      .....
Lex  YRSQGACLGARDPYCGWDGKQRCSTLEDSSNMSLWTQNITACPVRNVTRDGGFGPWSPW
      460      470      480      490      500      510

      570      580      590      600      610      620
Lex  QPCEHLDGDNSGSCLCRARS CDS PRPCGGLDCLGPAIHIANCSRNGAWTPWSSWALCST
      .....
Lex  QPCEHLDGDNSGSCLCRARS CDS PRPCGGLDCLGPAIHIANCSRNGAWTPWSSWALCST
      520      530      540      550      560      570

      630      640      650      660      670      680
Lex  SCGIGFQVRQRSCSNPAPRHGGRICVGKSREERFCNENTPCPVPIFWASWGSWSKCSSNC
      .....
Lex  SCGIGFQVRQRSCSNPAPRHGGRICVGKSREERFCNENTPCPVPIFWASWGSWSKCSSNC
      580      590      600      610      620      630

      690      700      710      720      730      740
Lex  GGGMQSRRRACENGNSCLGCGVEFKTCNPEGCPVRRNTPWTPWLVPVNTQGGARQEQRF
      .....
Lex  GGGMQSRRRACENGNSCLGCGVEFKTCNPEGCPVRRNTPWTPWLVPVNTQGGARQEQRF
      640      650      660      670      680      690

      750      760      770      780      790      800
Lex  RFTCRAPLADPHGLQFGRRRTETRTC PADGSGSCDT DALVEDLLRSGSTSPHTVSGGWAA
      .....
Lex  RFTCRAPLADPHGLQFGRRRTETRTC PADGSGSCDT DALVEDLLRSGSTSPHTVSGGWAA
      700      710      720      730      740      750

      810      820      830      840      850      860
Lex  WGPWSSCSRDC ELGFRVRKRTCTNPEPRNGGLPCVGDAAEYQDCNPQACPVRGAWSCWTS
      .....
Lex  WGPWSSCSRDC ELGFRVRKRTCTNPEPRNGGLPCVGDAAEYQDCNPQACPVRGAWSCWTS
      760      770      780      790      800      810

      870      880      890      900      910      920
Lex  WSPCSASCGGGHYQRTSCTSPAPSPGEDICLGLHTEEALCATQACPEGWSPWSEWSKCT
      .....
Lex  WSPCSASCGGGHYQRTSCTSPAPSPGEDICLGLHTEEALCATQACPEGWSPWSEWSKCT
      820      830      840      850      860      870

      930      940      950      960      970      980
Lex  DDGAQSRSRHCEELLPGSSACAGNSSQSRPCPYSEIPVILPASSMEEATGCAGFNLIHLV
      .....
Lex  DDGAQSRSRHCEELLPGSSACAGNSSQSRPCPYSEIPVILPASSMEEATGCAGFNLIHLV
      880      890      900      910      920      930
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          990      1000      1010      1020      1030      1040
Lex  ATGISCFLGSGLLTLAVYLSQCQHCQRQSQUESTLVHPATPNHLHYKGGGTPKNEKYTPMEF
      ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Lex  ATGISCFLGSGLLTLAVYLSQCQHCQRQSQUESTLVHPATPNHLHYKGGGTPKNEKYTPMEF
      940      950      960      970      980      990

          1050      1060      1070      1080      1090
Lex  KTLNKNLIPDDRANFYPLQQTNVYTTTTYPSPLNKHFSRPEASPGQRCFPNS
      ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
Lex  KTLNKNLIPDDRANFYPLQQTNVYTTTTYPSPLNKHFSRPEASPGQRCFPNS
      1000      1010      1020      1030      1040
```

1093 residues in 1 query sequences

1049 residues in 1 library sequences

Scomplib [version 3.3t05 March 30, 2000]

start: Wed Oct 29 10:33:25 2003 done: Wed Oct 29 10:33:26 2003

Scan time: 0.050 Display time: 1.567

Function used was FASTA